We claim:

- 1. A disc replacement device comprising a shell, a fulcrum, and a damping sleeve, wherein the shell comprises:
 - a first portion adapted for articulating with the fulcrum; and a second portion adapted for coupling with the damping sleeve.
- 2. The disc replacement device of claim 1 wherein the fulcrum is a spherical ball bearing.
- 3. The disc replacement device of claim 1 wherein the first portion comprise a flat surface.
- 4. The disc replacement device of claim 2 wherein the first portion comprises a concave surface.
- 5. The disc replacement device of claim 1 wherein the first portion comprises an irregular surface.
- 6. The disc replacement device of claim 1 wherein the damping sleeve is configured to provides flexibility between the first and second shell portions.
- 7. The disc replacement device of claim 1 wherein the damping sleeve comprises varied thickness.
- 8. The disc replacement device of claim 1 wherein the shell comprises a metal substance.
- 9. The disc replacement device of claim 1 wherein the shell comprises shape memory alloys.

- 10. The disc replacement device of claim 1 wherein the shell comprises an orthopedic articular bearing material.
- 11. The disc replacement device of claim 1 wherein the damping sleeve comprises silicone.
- 12. The disc replacement device of claim 1 wherein the damping sleeve comprises shape memory alloys.
- 13. The disc replacement device of claim 1 wherein the damping sleeve is configured to produce a cavity for receiving a lubrication medium.
- 14. The disc replacement device of claim 1 further comprising an internal ring.
- 15. A shell system for use with a spherical ball bearing disc replacement device, the shell system comprising:
- a first shell comprising a first portion adapted for coupling with a second shell and a second portion adapted for coupling with a damping sleeve; and
- a second shell comprising a first surface adapted for coupling with the first portion of the first shell and a second surface adapted for articulating with the spherical ball bearing.
- 16. The shell system of claim 15 wherein the first shell comprises titanium.
- 17. The shell system of claim 15 wherein the second shell comprises at least one from the group consisting of ceramic, cobalt chrome, polymer, stainless steel, and polyethylene.
- 18. The shell system of claim 15 further comprising an internal ring.

- 19. A disc replacement device, comprising:
- a first shell comprising an opening and an inner surface portion; a pillar adapted for coupling with the first shell at the opening; and a damping sleeve for coupling with the first shell at the inner surface.
- 20. The disc replacement device of claim 19 wherein the pillar comprises at least one shape memory alloy.
- 21. The disc replacement device of claim 19 further comprising:
 a spherical shaped device positioned proximate to the first shell.
- 22. The disc replacement device of claim 19 further comprising an internal ring.